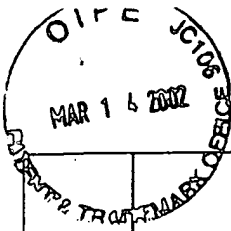


EXHIBIT A
PATENTS and PATENT APPLICATIONS
02/26/02



COPY OF PAPERS
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Title	Sarnoff Case Number	Inventor(s)	Status	Application Number	Filing Date	Patent Number	Issue Date	Origin
Monolithic Semiconductor Light Emitter and Amplifier	10579	Carlson	Issued	07632263	12/21/90	5,131,001	7/14/92	US
High Power Semiconductor Laser Diode	11611	Abeles Connolly Garbuzov	Issued	08/757883	11/27/96	5,818,860	10/6/98	US
Semiconductor Distributed Feedback Laser Diode	11698	Abeles Connolly Morris	Issued	08/524946	9/8/96	5,619,523	4/8/97	US
Light Emitting Semiconductor Device	11959A	Alphonse	Pending	09/205575	12/4/98			US
Electroluminescent Diode with Mode Expander	11961	Alphonse Andrews Menna	Issued	08/946180	10/7/97	6,034,380	3/7/00	US
Polarization-Independent Semiconductor Optical Amplifier	11983	Alphonse	Issued	09/159141	9/23/98	6,175,446	1/16/01	US
Wide Stripe Distributed Bragg Reflector Lasers with Improved Angular and Spectral Characteristics	12709	Connolly DiMarco Garbuzov Khalfin	Pending	09/468396	12/20/99			US

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Title	Sarnoff Case Number	Inventor(s)	Status	Application Number	Filing Date	Patent Number	Issue Date	Origin
Master Oscillator Granting Coupled Power Amplifier with Angles Amplifier Section	12709A	Connolly DiMarco Garbuzov Khalfin	Pending	09/546086	4/10/00			US
High Power Semiconductor Light Source	12797	Alphonse	Issued	09/158847	9/23/98	6,339,606		US
Phase Conjugating Structure for Mode Matching in Super Luminescent Diode Cavities	12977	Burstyn	Pending	09/566,276	5/5/00			US
Superluminescent Diode And Optical Amplifier With Extended Bandwidth	13038	Alphonse	Issued	09/159148	9/23/98	6,184,542	2/16/01	US
Method for Controlling Current Spreading in Semiconductor Laser Diodes	13206	Connolly DiMarco	Pending	60/164864	11/12/99			US
				09/710362	11/10/00			
Semiconductor Diode Lasers with Thermal Sensor Control of the Active Region	13505	Garbuzov Maiorov Khalfin Connolly	Issued	09/430643	10/29/99	6,301,279	2/16/01	US

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PATENTS and PATENT APPLICATIONS
02/26/02

Title	Sarnoff Case Number	Inventor(s)	Status	Application Number	Filing Date	Patent Number	Issue Date	Origin
Temperature Integrated High Power Semiconductor Laser	13764	Alphonse	Pending	60/161213	10/22/99			US
				09/571970	8/16/00			
Mode Expander with Co-Directional Grating	13764A	Alphonse	Pending	09/571211	5/16/00			US
Semiconductor Diode Lasers with Improved Beam Divergence	13858	Garbuzov Khalfin Connolly	Pending	09/553551	4/20/00			US
High-Power Single Mode Semiconductor Laser Diode	13860	Garbuzov Khalfin	Pending	60/176913	1/20/00			US
				09/585032	6/1/00			